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COURSE OF STUDY *of the* KERN COUNTY UNION HIGH SCHOOL



BAKERSFIELD, CALIFORNIA
1916—1917



THE BAKERSFIELD
CALIFORNIAN

MISCELLANEOUS FEATURES
BOSTON MONTAGE

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TRUSTEES OF THE KERN COUNTY UNION HIGH SCHOOL

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CALENDAR

Sept. 11.....	First Semester Begins
Nov. 25—Dec. 4.....	Institute, Thanksgiving Week
Dec. 22—Jan. 2.....	Christmas Recess
Jan. 19.....	End of First Semester
Jan. 22.....	Second Semester Begins
April 5-8.....	Easter Recess
June 1.....	Commencement

REQUIREMENTS FOR ENTRANCE

ANY person, a graduate of any grammar school of the State, may enter the First Year class. First Year students will be regularly received only at the beginning of the school year.

Students who have done work in other accredited high schools will be admitted to advanced standing on presenting proper credentials.

GRADUATION

Sixteen units are required for graduation (a unit represents a year's work in any subject taken 5 days per week). Courses are mapped out for the convenience of the students, and a student should select his course and complete it. However any student presenting 16 units for graduation must offer 3 units in English; 1 unit in Science, 1 unit in History or Civics, and 2 units in Mathematics. Students completing the Domestic Science Course need not present two units in Mathematics.

No student shall offer for graduation, more than 4 units in any subject.

Students reported by any teacher as deficient in Spelling or Penmanship will be examined by the Advisory Committee, and if found so they will be required to take a course in Penmanship and pass an examination in assigned work in Spelling.

SENIOR CERTIFICATES

On the completion of the Eleventh Year's work (a minimum of 11 units), the student will be issued a certificate, indicating that the student is of Senior standing and will be eligible to graduation two semesters later. Any student not receiving such a certificate can, under any circumstances hope to graduate, short of three semesters.

RULES AND REGULATIONS

OF THE

BOARD OF EDUCATION

PRINCIPAL

It shall be the duty of the Principal to call a meeting of the faculty at least once each four weeks for the purpose of considering matters pertaining to the interest of the school. He may call a meeting at any other time if in his judgment it is important.

He may appoint a committee of four teachers to act with himself as a faculty advisory body, with jurisdiction in matters pertaining to scholarship, discipline and other school affairs.

He shall have jurisdiction in cases of discipline, and shall report to the Board of Education matters which he considers sufficiently serious.

In connection with the faculty he shall lend all possible aid to the outside schools of the county which may be doing high school work.

He shall have charge of the buildings and grounds at all times during the sessions, and shall be responsible for their keeping.

TEACHERS

Vacancies in the regular teaching force caused by illness or unavoidable absence shall be filled by some one selected by the Principal who shall immediately notify the High School Board of the va-

cancy and the name of the substitute. Substitutes must be paid by the teacher whose position has been filled.

Teachers are required to report one week before the opening of the school year and be subject to the call of the Principal. All teachers shall remain during the week following the close of the school year, and as much longer as the school board may require, for completing the work of the year and arranging for that of the new year.

The teachers shall make any reports requested by the Principal or Board of Education.

Teachers desiring supplies must hand into the Principal's office a written requisition for the same, the last Friday of each month.

STUDENTS

Every student who has been absent or tardy, must bring a written excuse from parent or guardian. Parents wishing to have students excused before the regular time will please send a written request. Dental and other engagements can and should be made for times outside of school hours.

Students are expected to conduct themselves as ladies and gentlemen with a due regard for propriety. The Principal has power to suspend any student for wilful disobedience, open defiance of the authority of any high school teacher, profanity, vulgarity, truancy, persistent neglect of work, or irregularity of attendance, for use of tobacco on the school grounds or on the way to and from school or for any conduct considered detrimental to the best interest of the school. The authority of the school extends beyond school hours and the

school grounds and especially to all times and places where pupils appear in the name of or as members of the school.

No subscription of any kind shall be asked for or taken, nor shall tickets for any purpose be sold in class rooms or assembly. No canvassing or advertising of any kind shall be permitted on the school premises. Lists of students are not to be given out except with the permission of the Board of Education.

COURSE OF STUDY

It is the purpose of the High School to offer courses of study which will do the greatest amount of good to the greatest number of students. The majority of high school students never go to college, but take up some work when they leave the High School, therefore, unless they are sure that they are going to college they should try to select some course which will prepare them best to do what they wish to do, when they leave the High School.

Students, who later in their course decide to go to college, can usually, without any difficulty, take the subjects required for college entrance.

Those students who are reasonably certain of going to college should register in the college preparatory course, and if they know what course they will pursue in college, follow the suggestions found on page 45.

ANSWER KEY FOR WORKSHEET

KERN COUNTY HIGH SCHOOL. COURSE OF STUDY FOR 1916-1917

(SEE NOTES BELOW)

HOME ECONOMICS	AGRICULTURE	MANUAL TRAINING	COMMERCIAL	SCIENTIFIC	GENERAL	COLLEGE PREP.
Sewing Foreign Language or Ancient History English (Elect one) Gen. Science Algebra Music Drawing. F. H.	Agric., Gen. Science Algebra English Shop (Elect one) Drawing, F. H. or M. Foreign Language Music Drawing. F. H.	Shop Algebra English Drawing, F. H. or M. (Elect one) General Science Ancient History Music Foreign Language	English Spelling Arithmetic Penmanship Bookkeeping	English Algebra General Science (Elect one) Shop Domestic Science Language Drawing, F. H. or M. Biology	English Algebra General Science (Elect one each) Shop Domestic Science Language Drawing, F. H. or M. Biology	English Algebra Foreign Language (Elect one) Ancient History Music Domestic Science Shop Drawing, F. H. or M.
Cooking Foreign Language or M. History (Elect one) (Elect one) Drawing, F. H. or M. Country Music Biological Science	Dairying, Etc. Geometry English (Elect one) Shop Drawing, F. H. or M. Music Foreign Language	Shop English Geometry (Elect one) Drawing, M. M. M. History Music Foreign Language	English Spelling or Typing Commercial Law and Commercial Geography Penmanship Biology Correspondence and Bookkeeping	English Geography Biological Science (Elect one) Shop Domestic Science Drawing, F. H. or M. M. M. History	English Geometry Biology (Elect one each from a and b.) Shop Domestic Science Drawing, F. H. or M. M. M. History	English Geometry Foreign Language (Elect one) Domestic Science M. M. History Shop Domestic Science Drawing, F. H. or M. Music Biological Science
Sewing Adv. Chemistry English (Elect one) Foreign Language English History Music Drawing, F. H. or M.	Horticulture, Etc. Chemistry English (Elect one) Algebra Drawing, M. Foreign Language Music Shop	Shop Chemistry English (Elect one) Algebra Drawing, M. Foreign Language Music Shop	English Spelling Typing Shorthand (Any Elective)	English Chemistry Algebra (Elect two) Shop Domestic Science Drawing, F. H. or M. English History Foreign Language	English Chemistry Algebra (Elect two) Shop Domestic Science Drawing, F. H. or M. English History Foreign Language	English Chemistry (Elect two) Algebra English History Drawing, M. or F. H. Foreign Language
Household Mgmt. History, U. S. (Elect three) Foreign Language Drawing, F. H. or M. Physics Music English	Farm Management History, U. S. (Elect one) Shop B. Com. and Sur- veying Music English	Shop Physics History, U. S. (Elect one) English Math Drawing, M. Geom. and Trig. English	English U. S. History Typing Shorthand (Any Elective) NOTE—The four- year commercial course leads to a di- ploma, either half in a certificate. stu- dents may be allowed to take the four- year course or make arrangements with the instructor for the two-year course	American History Physics Geom. and Trig. (Elect one) Shop Domestic Science Drawing, F. H. or M. English Foreign Language Assaying	U. S. History Physics Foreign Language Assaying Drawing, F. H. or M. Shop Domestic Science Music NOTE—Bookkeep- ing, typing, and shorthand may be elected in any year	History, U. S. (Elect three) Foreign Language Geom., S. and Trig. Physics English Drawing, M. or F. H.

A Student must have permission of the Principal to register for more than four subjects, except in the first year agriculture and manual training courses and in the commercial course.

Physical Culture may be elected as a fifth subject by girls in any course or year.

Second year students who expect to take 3 or 4 years of Mathematics, may take Algebra 3 instead of Geometry.

HOME ECONOMICS

The object of the Home Economics course is to give the student a knowledge of the real science of cookery and household management. To learn to cook and serve a meal well, understand the nutritive value of the foods prepared, and the object in selecting the dishes to be served. Also to give an appreciation of the relation of the expenses to the income of an average family. A knowledge of what and how to buy being considered as essential as how to cook or sew well.

Students preparing to teach Home Economics are referred to page 46.

First Year Sewing

Elementary sewing, thirty-six weeks, ten periods per week.

(a) MODEL WORK—Elementary and fancy stitches and their application, as basting, running stitch, back stitch, hemming, felling, binding, mitred corners, button holes, eyelets, patching, darning, embroidery, etc.

(b) ARTICLES MADE—Sewing apron (hand work), complete set of underwear, Christmas gifts, cooking aprons, kimonas, summer dresses, etc., made by the use of ready-made and drafted patterns. Suitability of materials used is emphasized.

(c) TEXTILES—Practical understanding of textile fibres and fabrics, and the process of their manufacture. Judgment and taste in selection, as suited in wearing quality, adaptability, use, perma-

nence of color and harmony of design. Simple tests made for selection of fibres, adulterants, dyes, etc.

Second Year—Cookery

Cooking and serving, thirty-six weeks, ten periods per week.

The purpose of this course is to give a foundation for all work along this line. Fundamental principles and processes are taken up. Emphasis is laid upon neatness, accuracy, and economy in handling materials and utensils.

The work in general consists in the preparation, preservation and serving of all foods in respect to the underlying principles of cookery, ideal results, and the manner and place of serving; also in respect to the composition of the food. The source, composition, digestion and food value, etc., are studied.

Invalid cookery comprises the study of the diet in relation to disease, together with the preparation of food suitable for the sick.

Third Year—Sewing, Advanced

Dressmaking and millinery, thirty-six weeks, ten periods per week.

DRESSMAKING—This course gives practical knowledge of all textile fibres and fabrics. It includes the making of simple and more elaborate garments, tailored garments, housefurnishings, etc. It also includes renovation and repair of clothing. The use and alterations of patterns are emphasized.

MILLINERY—This course includes practical and artistic principles of millinery, use of various materials; practice in making bows, rosettes, etc.; making of frames; renovation of old materials; appropriateness of color and design.

Fourth Year—Household Management

Thirty-six weeks, five periods per week.

HOUSEHOLD MANAGEMENT—General management of the home, organization of the household, value and cost of furnishings, expenditure of income, household accounts, and general cost of living, etc.

HOME SANITATION—Study of conditions which determine the healthfulness of the home, and the application of the principles of sanitation in its care; sanitary location, construction, ventilation, heating, lighting and plumbing of the home; plans for simple house; plans for simple plumbing system.

HOME NURSING—Study of sick room, its location, furnishing and care; instruction in intelligent aid to the physician; recognition of symptoms of disease; first aid instruction.

EQUIPMENT

The high school cooking room is well equipped with the best design of domestic science tables with individual gas stoves; one gas range with water heater, the necessary cupboards, sanitary refrigerator, and the necessary cooking utensils and kitchen furnishings for each pupil.

The sewing room is equipped with a large cutting table, individual sewing tables, and sewing machines.

MANUAL ARTS

A four-year course is offered in Manual Arts, including woodwork, forge, pattern making, machine shop and photography. Any course offered is so arranged that any boy may take as an elective a part or all of the manual art subjects. It is highly advisable that nearly every student take at least a year of such work.

First Year—Wood-working—1B

The course in woodworking is designed to give such training in the processes of elementary woodworking as will insure mastery of the common woodworking tools, acquaintance with drawings, the ability to design simple pieces of furniture, and practice in the sharpening and care of tools used. Special attention is given to planing, joining, gluing, sawing and chiseling. A start is made in wood turning, care of lathes, and use of the different tools, which work is completed in the second year.

Forging—1A

Perhaps no form of manual training involves greater dexterity of hand, accuracy of eye and quickness of thought than smith work. From the first simple exercises in "drawing out," the necessity of striking while the iron is hot is impressed firmly on the mind of the pupil, and instant judgment is brought into continual play.

Drawing, bending, twisting, upsetting, welding, shaping of wrought iron, the annealing, hardening,

tempering, and working of high carbon steels are given careful attention in the course.

Second Year—Pattern Making 2B

First is taken up a study of the proper materials and tools used in the art, the principles involved in the construction of patterns and especially those of draft and shrinkage; secondly, the tempering and mixing of sands used in general foundry practice; thirdly, bench work with snap flasks and solid small flasks, and the molding of small patterns made by the student.

Machine Shop—2A

As a preparation for the work each machine is carefully studied, its construction and various motions, the office of each nut, bolt, screw and part. Actual work is begun with a series of exercises, such as plain turning, facing, thread cutting, inside boring and threading, turning of tapers, and chuck work of all kinds. Later, the pupil is given work on the drill presses, miller, shaper and grinder.

Third and Fourth Years

After the completion of one year of machine shop practice the pupils are permitted to enter any one of the shops in which they may wish to make themselves proficient in advanced work. These pupils are given individual attention and at the beginning of the year their courses are planned by the instructor. Their needs are carefully studied, and each individual requirement is met. This plan of shaping the course to the individual has proved most satisfactory for advanced pupils.

Photography

Pupils who have completed one year of advanced machine shop practice may elect photography. In

general, the course consists in instruction in the care and mechanism of the camera, tray development, negative making, intensifying and reducing, printing, exterior and interior photography, flash light photography, copying and enlarging.

EQUIPMENT

The machine shop is a room 32 feet by 48 feet in size, well lighted and equipped with individual motor driven machinery as follows:

- 1 Hendee Lathe with all attachments.
- 3 Star Screw Cutting Engine Lathes.
- 1 Wells Speed Lathe.
- 1 Oliver Wood Turning Lathe.
- 1 Sterling Power Hack Saw.
- 1 Rockford Back Geared Shaper.
- 1 Sibley Drill Press.
- 1 Milwaukee Wet Tool Grinder.
- 1 Brown and Sharp Milling Machine.
- 1 Cincinnati Universal Grinder
- 1 Oliver Wood Lathe
- 1 Rockford Drill Press.
- 1 Hamilton Engine Lathe.

The wood shop is a room 32 feet by 60 feet in size, equipped with the following power driven machinery:

- 1 Oliver Band Saw.
- 1 Porter Joiner.
- 1 Oliver Circular Saw.
- 8 Oliver Wood Lathes.

The molding room, which is 34 feet by 36 feet, is used by pattern making students who are employed here two periods each week. All patterns made in the wood shop must be tested in the

molding room for draft before acceptance by the instructor. The equipment consists of:

- 12 Obemeyer Flasks.
- 16 Riddles.
- 12 Bellows.
- 12 Sets Molding Tools.
- 2 Floor Rammers.

The forge shop is similar to the wood shop in design, 34 feet by 36 feet in size. It is provided with cabinets, tool holders, lockers, coal bins, and the following machinery:

- 16 Oliver Forges.
- 1 Power Hammer.
- 1 Suction Fan.
- 1 Force Fan.
- 1 Emery Wheel Stand.
- 1 Buffalo Forge.
- 1 Drill Press.

The dark room is located over the office of the building and contains about 180 square feet of floor space. Equipment, mostly made by pupils in the shop, is being added each year. A print washing machine, capable of thoroughly washing 150 prints per hour, has recently been completed, and an electric printing machine is in use. The equipment consists of:

- 1 Camera, 5x7.
- 1 Ansco Camera, post card size.
- 1 Enlarging Apparatus.
- 1 Print Washing Machine.

Also trays, chemicals, brushes and other small equipment.

COMMERCIAL

The Commercial Department offers a regular four-year course and all students of the average high school age who wish commercial work, are advised to pursue this course. Students may, by consent of the Head of the Department, register for a two-year course, but unless they are of a mature age, such registration will be discouraged. The immature student needs the added years of training and a chance to take not only more vocational work, but also the cultural elective, than he can crowd into two years. The following courses are offered:

First Year—Bookkeeping

Thirty-six weeks, ten periods per week. This will be carried on partly as class work. Regular recitations will be held and the class will be kept doing the same work as much as possible. Still there will be plenty of room for the ambitious student to progress rapidly.

First Year—Spelling

Thirty-six weeks, five periods per week. In addition to drill in spelling, pronunciation and meaning of words this work includes the use of words in business letter writing.

An average of 90 per cent in the work of the first year will excuse the pupil from that of the second year.

ARITHMETIC—Thirty-six weeks, five periods per week. Drill in the use of arithmetic in business practice. Rapid methods and checks.

PENMANSHIP—Thirty-six weeks, five periods per week. Practice in rapid and accurate business writing. An average of 90 per cent is required.

ENGLISH—1B—Same as regular English.

1A—A thorough review of grammar, practically applied. Punctuation, forms of sentences, uses of words, phrases, and various constructions. Mastery of the letter parts and form. Letters of application, inquiry, complaint; writing of orders and telegrams. Reports made on first-hand knowledge of industries, mainly in Kern County. Reports on assigned reading. Two books from regular 1A English list studied in class.

Second Year—Bookkeeping

Thirty-six weeks, ten periods per week. This is a continuation of the work of the first year. Pupils who complete the required work in time may be given advanced practice.

In the four-year commercial course, pupils who have taken the course in advanced arithmetic in their second year will be able to acquire a sufficient added knowledge of business arithmetic in conjunction with their work in bookkeeping.

BUSINESS PRACTICE—This work is carried on in conjunction with the bookkeeping. The progress and the ability of the student to master the preliminary work in bookkeeping governs the time when he commences business practice.

Second Year—Spelling

Thirty-six weeks, five periods per week. A continuation of the work of the first year, substituting as far as possible typewriting for spelling.

In the four-year commercial course, this requirement is met in one year's work.

COMMERCIAL GEOGRAPHY—Eighteen weeks, five periods per week. This subject includes a study of countries, products, trade routes, etc., emphasizing the relations which exist between the fundamental principles of geography and the economic interest of man.

COMMERCIAL LAW—Eighteen weeks, five periods per week. This subject covers the simpler applications of the law to ordinary business forms and operations.

ENGLISH

2B—COMPOSITION—Simple and effective statement of fact; material used drawn mainly from field of commerce, including manufacture, distribution, transportation, banking, etc. Technical description emphasized. Exercises in explanation of operations, processes, machines, property, goods, etc. Reports on special industries. Exposition; construction of outlines; convincing argument and forceful appeal.

Two books from regular 2B English list studied in class. Special reports on outside reading on commercial subjects; use of technical books and magazines.

2A—BUSINESS LETTER WRITING—Development of commercial vocabulary; criticisms of actual letters; selling arguments. Circular and form letters; follow-up systems.

ADVERTISING—Purpose; general theory; relation to four forms of discourse; criticisms and discussions; construction of effective advertisements; laying out of circulars and booklets.

The study of Lowell's and Tennyson's poems as outlined in regular 2A English. Heydrick's "Types of the Short Story." Reports on outside work as in first semester.

Third Year—English

A choice of any of the Third Year English offered in the English Department.

SHORTHAND—Thirty-six weeks, ten periods per week. The requirement of this year is a mastery of the text book used, the Phonographic Ammanensis. The aim of the year's work is accuracy and an understanding of the principles. The acquirement of speed is left for the second year. As much practice dictation as possible is given in the first year.

TYPING—Thirty-six weeks, ten periods per week. The touch method is used and pupils are required to write on blind machines. Pupils are not allowed to erase during their first year. The sole requirement during first year is accuracy. Toward the close of the year the pupil begins to learn letter forms.

HISTORY OF COMMERCE

(Description of, found under History.)

Fourth Year—U. S. History and Civics

(Description of, found under History.)

TYPING—A continuation of Third Year Work with practical work in the school.

SHORTHAND—Advanced work from Third Year with special dictation from faculty as work is needed.

NOTE—Students may take the Shorthand and Typing the first two years and Bookkeeping the third and fourth years.

AGRICULTURE

First Year—

The work of the first year's course will lay the foundation upon which the remaining agriculture courses rest. Its purpose is to show that a knowledge of the sciences, especially botany, chemistry, and physics is necessary in scientific farming. In other words, the course will emphasize the usefulness of scientific knowledge to the farmer. The work will be carried out by means of lectures, experiments, demonstrations, field trips, and reference reading.

Second Year—

Dairying, Animal Husbandry, Poultry Husbandry

The work in dairying will be a study of the dairy breeds of cattle, care and management, rations for dairy cows, the production and handling of milk, Babcock test for butter fat, butter making, and marketing milk.

Under animal husbandry will be studied the origin and development of farm animals, feeding farm animals, care and management, common diseases of farm animals and their treatment.

Poultry husbandry will take up artificial incubation of eggs, brooding of chicks, rations for egg production, rations for fattening fowls, care and management of poultry, and a brief study of the common breeds of poultry.

Third Year—

Horticulture, Floriculture and Olericulture

The course in horticulture will deal with Califor-

nia fruits, the selection of sites for orchards, laying out orchards, spraying, irrigating, pruning, and also work in nursery practice. The work will be carried on in the field as far as it is possible to do so.

The floriculture course will deal with the production of cut flowers grown under glass and for commercial purposes. Most of this work will be done in the green house.

Olericulture is concerned with the growing of vegetables and the course will deal with the subject both from the standpoint of the home garden and from that of market gardening. This course will be largely field work.

Fourth Year—

Farm Crops, Soils, Farm Machinery and Farm Management

The course in farm crops will deal with the cereal crops of economic value, forage crops and pastures.

The course in soils will deal with the formation of soils, kinds of soils and their management, cover crops, mulches, humus, soil elements, and crop rotations.

Farm machinery will be a study of the common farming implements, their construction, and their uses.

The farm management course will be a sort of review of the agriculture course which has extended throughout the four years of high school. It will make practical application of the fundamental principles which have been learned.

Special Course in Agriculture

For pupils over 18 years of age, whose application is approved by the principal and the superintendent of schools, there is provided a one year's

course in agriculture, including English, shop mathematics, drawing, plain carpentry and blacksmithing. The hours in this course will be from 8 a. m. to 4:30 p. m., with an option of 4 hours on Saturdays, from 8 a. m. to 12 m. Of this time the students will spend approximately 450 hours on drawing, carpentry and blacksmithing, and 630 hours on agriculture, including botany, horticulture, animal husbandry, soils and crops. One hour each day will be devoted to each of the following: Shop mathematics and English, elementary chemistry, introducing soil analysis.

When the student leaves, a certificate will be issued him setting forth his proficiency.

ENGLISH

First Year

Three periods each week to the study of composition; two periods to literature. The oral side of composition is emphasized; a requirement for promotion is the ability to present satisfactorily to the class oral material. Narration and description is studied with special stress on the former. Buhlig's "Business English" guides the technical study of composition and grammar, including punctuation and the writing of a clear sentence and paragraph.

1B—Halleck and Barbour's "Readings from Literature" used as a basis for literary study and composition material.

1A—A thorough review of grammar with the practical application of its principles in actual composition and business letter writing. The following classics:

Any two: Ivanhoe, Scott; Silas Marner, Eliot; Treasure Island, Stevenson; Last of the Mohicans, Cooper; Oregon Trail, Parkman.

One of Shakespeare's plays: Midsummer Night's Dream; The Tempest; As You Like It.

Second Year

Clippinger's "Composition and Rhetoric." A review of description and narration, with a beginning in exposition, especially covering the construction of outlines. A thorough mastery of the mechanics of writing required.

2B—Marmion, or Lady of the Lake.

One of the following:

- The Mill on the Floss, Eliot.
- David Copperfield, Dickens.
- House of Seven Gables, Hawthorne.
- Quentin Durward, Scott.

One of Shakespeare's plays:

- Merchant of Venice.
- Julius Caesar.

2A—From Gayley and Young's Principles and Progress:

- Goldsmith's Deserted Village.
- Coleridge's Ancient Mariner.
- Macaulay's Horatius.
- Lowell's Vision of Sir Launfal.
- Tennyson's Gareth and Lynette, Lancelot and Elaine, Passing of Arthur.

American Short Stories from "Types of the Short Story by Heydrick. Not a technical study of the short story, but an appreciation of it as a literary form.

Third Year

3B AND 3A—A study of the history of English literature will be based on Professor Long's text.

The following writings will be studied:

- Chaucer's Prologue.
- Shakespeare's Macbeth or Hamlet.
- Milton: About 1000 lines will be selected from his short poems.
- Bunyan's Pilgrim's Progress. Class reports.
- Addison and Steele: De Coverley Papers. To be read out of class in part.
- Burns's Selections with Carlyle's Essay.
- Wordsworth: 500 lines from his best poems.
- Selections from Byron, Shelley and Keats.
- DeQuincey's Revolt of a Tartar Tribe.

Tennyson: Poems found in Principles and Progress.

Browning: Andra del Sarto, My Last Duchess, Evelyn Hope.

Arnold: The Forsaken Merman.

Thackeray: Henry Esmond, or Vanity Fair,

Dickens: Tale of Two Cities.

Ruskin: Sesame and Lilies.

Composition: Clippinger's Principles of English Composition will be used as a basis for the composition work. Particular attention will be given to the making of outlines and the development of the essay.

DRAMATICS

This course is an alternative for English 3 or 4. It is a cultural course with a two-fold purpose, i. e., (1) To acquaint the pupil with the History of the Drama and the New Tendencies of the Drama. (2) To give the pupil stage presence and help his enunciation and voice development.

The first semester takes up the History of the Drama from the Aristotelian Greek Drama through the Drama of Goldsmith and Sheridan.

The second semester takes up the New Movement in the Drama, and a study of the chief contemporary dramatists.

The work of both semesters is supplemented by reading certain representative dramas; and the work in expression is carried on through both semesters.

The classes will be small, and certain restrictions will be placed on the freedom to enter the course. Those wishing to enter the course must consult the instructor some time between Sept. 1st and the beginning of school.

ORAL ENGLISH

This course is an alternative for English 3 and 4. The aim of the course is to teach the student to think and then to express his thoughts.

A large amount of time is devoted to both prepared and extemporaneous talks and speeches. Thirty-six weeks, five hours per week.

Fourth Year

4B—A study of literature based on Simon's "American Literature from Illustrative Readings." Students are asked to subscribe for certain magazines to be used in class room for a study of current events and journalistic literature. The short story as an important phase of literature taken up. The technique of the short story expressed in constructive exercises leading up to the writing of the short story.

4A—The work in American Literature and the magazine continued. Modern writers studied and an attempt made to place a comparative value on contemporary writings. Investigation of the theory of modern advertising. Magazine, newspaper, and other advertisements studied and discussed. Advertisements constructed with a view to effectiveness and general appeal.

MATHEMATICS

First Year—Elementary Algebra

Thirty-six weeks, including quadratic equations, simultaneous equations of the first degree, and elements of variation. Special attention is given to factoring and to graphical methods.

Second Year—Plane Geometry

Special attention to accuracy. Enough original problems to develop the power of reasoning from principles. Practical problems related to mensuration, mechanics and draughting. Thirty-six weeks.

Arithmetic, eighteen weeks. A re-covering of the ground of grammar school arithmetic from the viewpoint of principles. Mastery of short methods and checks. Continued drill for accuracy. A great variety of problems related to business and industry. This is for commercial students only.

Third Year—Advanced Algebra

The development of principles, the use of graphical methods, and the application of algebra to practical problems is an important part of this subject. Thirty-six weeks.

Fourth Year

Solid Geometry, eighteen weeks. The application of trigonometry to practical uses is essential. This subject is intended to be followed by and put to use in surveying.

SURVEYING—Twelve to eighteen weeks. Practical work in the field and the draughting room.

Use of instruments, running foundation, levels, running ditches and roads to grade, setting cross section stakes, calculating earth to be moved, land measurements, leveling machinery, charting and the general use of a bidder's level. This work includes the reproduction of field notes in map form.

SCIENCE

First Year

General Science, thirty-six weeks, five periods a week. The subject is treated from the point of view of natural science in general rather than from the points of view of the several subdivisions thereof. Clark's General Science is used as a reference for class use and aside from this students are assigned some collateral reading. A certain amount of laboratory work is required.

Second Year

Physical Geography, thirty-six weeks, five periods a week. The subject matter of any one of the standard high school texts is taken as the basis for the work. Arey, Bryant, Clendenin and Morey's Physiography and Smith, Stahl and Sykes' laboratory manual in physical geography are in use. Tarr's New Physical Geography is also used as a supplementary text.

Biological Science

A general course will be offered, beginning Sept. 11, 1916. This course for the present year will be open to 2nd, 3rd and 4th year students.

Third Year

Chemistry, thirty-six weeks, seven or eight periods a week. This is strictly a laboratory course, using as a basis Smith's High School Chemistry and Manual. It comprises a thorough study of the principal elements, valence, law of definite and mul-

tiple proportion and is preparatory and prerequisite to the first course in chemistry given in the Junior College.

HOUSEHOLD CHEMISTRY—This covers a year's work. It is especially for girls who take domestic science and who do not expect to go to college. Snell's Household Chemistry is recommended.

Fourth Year

Physics, thirty-six weeks, seven or eight periods a week. Milliken and Gale's Short Course in Physics and a laboratory manual provide the outline for the work.

ASSAYING—Two courses of eighteen weeks, each, ten periods a week are offered. The work consists entirely in actual assays of ore samples and some instruction on ore deposits and important minerals associated with them. Beringer's textbook of Assaying, Griffin & Co., London, is used as a reference.

HISTORY

The student should be led to distinguish the essential points in history. Special attention should be attached to the development of movements of far reaching importance to civilization. Mere memorizing of facts and dates is to be avoided. Abstracts should be used only to train the pupil to get at the gist of the subject. Whatever note-book work or map drawing is required must be done neatly and accurately.

ANCIENT HISTORY—Thirty-six weeks, five periods per week. This subject is a condensation of the usual one year's work in the history of Greece and Rome and that portion of European history closing about 800 A. D. The development of civilization; the growth of institutions; the rise and fall of nations, with the study of the reasons for both their success and failure. Special attention should be given to the successive westward movements which have resulted in the present location of European peoples.

MEDIAEVAL AND MODERN HISTORY—Thirty-six weeks, five periods per week. From the year 800 to the present time. Special attention given to racial movements and to the development of civilization. The growth of the modern forms of government. Details of English history are to be omitted.

ENGLISH HISTORY—Thirty-six weeks, five periods per week. This should be a development of

the history of the English race in its social, industrial, political and constitutional aspects.

HISTORY AND GOVERNMENT OF THE UNITED STATES—Thirty-six weeks, five periods per week. A consideration of the growth, development and progress of the American nation and its institutions. Special attention should be given to present social, industrial and political conditions of the nation. In civics, the duties of citizenship should be emphasized and attention given to the question of municipal government.

HISTORY OF COMMERCE—This course will take up the history of commerce from the earliest times and trace the growth down to the present time, taking especial account of geographic, economic and political factors.

FOREIGN LANGUAGES

LATIN

First Year—Latin

Thirty-six weeks, five periods per week. This work includes a thorough mastery of Latin inflections, some rudiments of syntax, reading of easy Latin prose, and constant practice in writing easy Latin sentences based on Caesar.

Second Year

Thirty-six weeks, five periods per week. Caesar's Gallic Wars, Books I to IV, with attention to the related topics of Roman history, life and civilization. Continued work in syntax and in writing of Latin. With the approval of the Principal an equivalent amount from the Lives of Cornelius Nepos may be substituted for the four books of Caesar.

Third Year

Thirty-six weeks, five periods per week. Six orations from Cicero, including the four against Catiline, that for the Manilian Law, and the speech in defense of the Poet Archais. The grammar is practically completed and composition continued in Latin paragraph writing based on Cicero.

Fourth Year

Thirty-six weeks, five periods per week. Virgil's Aeneid, Books I to IV, with the study of prosody. Continued paragraph writing based on Cicero,

special attention to sight reading of Latin verse.

Third and fourth year Latin will not be given unless classes are large enough to warrant the undertaking.

SPANISH

First Year—Spanish

Thirty-six weeks, five periods per week. Spanish grammar and pronunciation, with the reading of from 100 to 200 pages of easy Spanish prose. All class work, as far as possible, is conducted in Spanish.

Second Year

Thirty-six weeks, five periods per week. Grammar and pronunciation continued, with the reading of about 300 pages of Spanish prose. Class work, as far as possible, conducted in Spanish. Third and fourth year Spanish will be given when classes are large enough to warrant it.

FRENCH

First Year—French

Thirty-six weeks, five periods per week. French grammar and pronunciation, with the reading of from 100 to 200 pages of easy French. All class work, as far as possible, is conducted in French.

Second Year

Thirty-six weeks, five periods per week. Continued study of the grammar, with the reading of about 300 or 400 pages of French prose, including simple work on scientific subjects for the acquiring of a vocabulary used in French technical books.

Third and fourth year French will be given where the demand is sufficient to organize a class.

GERMAN

First Year—German

Thirty-six weeks, five periods per week. A study of the elements of German grammar along with the reading of easy German. Especial emphasis will be placed on the conversational side.

Second Year

Thirty-six weeks, five periods per week. A more advanced study through readings of modern writers. Conversational German given especial emphasis.

DRAWING

MECHANICAL DRAWING

The first year aims to give the student a knowledge of the use of the instruments, an ability to read drawings and an intelligent appreciation of the varied use of drawings.

The work starts with geometrical constructions, lettering, copy plate work, advancing as rapidly as possible to orthographic projection and then to very simple working drawings.

The second year the student starts with drawings of simple machine parts from models such as check valves, globe valves, gate valves, injectors, etc., which he takes apart for the purpose of making both the detail and assembly drawing. More lettering work is given in the early part of the year. Tracing and blueprinting are also given.

During the latter part of the year the student who desires to specialize in architectural drawing is given an opportunity to do so.

The third year the student should be able to make drawings of complete machines and he is started on drawings of machines in the different shops, then given some machine outside of the school to make sketches of and obtain measurements sufficient to enable him to make complete details and assembly in the drawing room. The architectural student is given a list of requirements including cost, size and direction of frontage of a lot, number and arrangement of rooms, and other data supposedly from a client and is obliged to

work up a set of plans, specifications and contractor's contract.

The fourth year student is obliged to do a great deal of figuring of costs and other executive work in addition to the drawing work. The drawing work in this last year is planned to supplement as much as possible the special line of work that the student has selected and is entirely individual work.

FREEHAND DRAWING

The Art Department presents a varied course to suit the abilities of the student. It ranges from copy plate work, drawing geometrical figures, conventional design, casts of the human face and form in pen and charcoal, to illustrating, designing and painting in water color, pastel, or oil.

The aim of the department is not merely to train the hands to guide the pencil, but to train the perception, to broaden the power of observation, strengthen the ability to express oneself and give a keener appreciation of the beautiful.

The first work is in outline and light and shade, from geometrical figures and kindred subjects. From these the work is carried up the scale as fast as the student is capable, regardless of the progress of his neighbor who may be more or less talented, specializing in perspective first, and then chiaroscuro.

During the second credit year the student is allowed to take up color, if he shows the proper amount of ability and energy, and should be able to do some very creditable illustrating or color work.

MUSIC

Students, who have taken music during the year 1915-16, will find a course in second year music open to them.

Beginning students will enter the regular first year classes unless permission is granted by the instructor, to enter the second year class.

There will be a band and an orchestra and credit will be given according to the time expended.

TEXT BOOKS USED

ENGLISH

First Year

B—Ward's Oral Composition.
Clippinger's Composition and Rhetoric.

First Year

A—Stevenson's Treasure Island. Man Without a Country, by E. E. Hale. Shakespeare's Midsummer Night's Dream. Wooley's Handbook of Composition.

Second Year

B—Scott's Marmion, George Eliot's Silas Marner, Scott's Ivanhoe.

Second Year

A—Irving's Sketch Book. Dickens's Tale of Two Cities, Shakespeare's Merchant of Venice, Goldsmith's Deserted Village, Burns's Cotter's Saturday Night and Tam O'Shanter, Byron's Prisoner of Chillon. Woolley's Handbook for Composition.

Third Year

Long's History of English Literature, Ginn & Co.; Palgrave's Golden Treasury and Gayley and Young's Principles and Progress of Poetry.

Fourth Year

Principles and Progress of Poetry.

MATHEMATICS

First Year

Wells and Hart's First Year Algebra, Heath.

Second Year

Wentworth and Smith's Plane Geometry, Ginn & Co.

Third Year

Wells and Hart's Second Course in Algebra.

Fourth Year

Wentworth & Smith's Solid Geometry and Wentworth's Plane Trigonometry, Ginn & Co.

HISTORY

First Year

West's Ancient World, Allyn & Bacon.

Second Year

Harding's Mediaeval and Modern History, Am. Book Co.

Third Year

Cheney's English History, Ginn & Co.

Fourth Year

West's Student's History of the United States, Allyn & Bacon.

SCIENCE

First Year

Clarke's General Science, Am. Book Co.

Second Year

Arey, Bryant, Clendenin and Morey's Physiography, and Smith, Stahl and Sykes's Laboratory Manual for Physiography, both published by D. C. Heath & Co.

Third Year

Smith's High School Chemistry and Smith's Laboratory Manual to accompany the same; The Century Co. Snell's Household Chemistry, The MacMillan Co.; Blanchard's Lab. Manual for Household Chemistry, Allyn & Bacon.

Fourth Year

Physics, Milliken & Gale, revised.

AGRICULTURE

First Year

Soils and Plant, Cunningham & Lancelot.

Second Year

Dairy Farming, Michels.

Third Year

Wickson's California Fruits, Pacific Rural Press.

Fourth Year

Principles of Argonomy, Harris & Stuart.

MUSIC

McConathy's School Song Book, C. C. Burchard; Alexander's Songs We Like to Sing, Silver-Burdett.

LANGUAGES

First Year—Latin

Scott's Elementary Latin, Scott, Foresman & Co.

Second Year

Towle and Jenk's Caesar's Gallic War, D. C. Heath.

Third Year

D'Ooge's Select Orations, Sanborn & Co.

D'Ooge's Latin Composition, Parts I and II, Ginn & Co.

Fourth Year

Knapp's Aeneid, Scott, Foresman & Co.

First Year—French

Fraser and Squair's Shorter French Course, D. C. Heath; La Mere Michel et son chat Le Chien du Capitaine.

Second Year

L'Abbe Constantin, La Lulipe Noire, Dumas.

First Year—Spanish

A Spanish Grammar, Olmsted & Gordon.

Second Year

Olmsted & Gordon's Spanish Grammar, Galdos's Marianela, Zaragueta.

First Year—German

Bacon's German Grammar for Beginners, Allyn & Bacon.

Second Year

Bacon's German Grammar for Beginners, Classics from the German literature of the last one hundred fifty years.

COMMERCIAL SUBJECTS

Miner's Bookkeeping, Ginn & Co. Moore and Miner's Commercial Arithmetic, Ginn & Co. Brigham's Commercial Geography. Ganos' Commercial Law, A. B. C. Pittman and Howard's Reporter's Companion, Phonographic Institute. Phonographic Institute. Pittman's Phonographic Amaruensis, Phonographic Institute. Complete Typewriter, Barnes. Seventy Lessons in Spelling, A. B. C. Marshall Goodyear Business Practise.

SUGGESTIONS TO STUDENTS EXPECTING TO GO TO COLLEGE

Any student having the following recommended credits (a credit is a year's work in a subject) will be admitted to any college in the State University: English, 2; Mathematics, 4; Drawing, 2 (Freelhand and Mechanical); Foreign Language, 4; History, 1; Physics, 1; Chemistry, 1. Each college, however, permits certain modifications from the foregoing which are indicated in the table below.

SUGGESTIONS TO STUDENTS EXPECTING TO ATTEND NORMAL SCHOOL

Students who expect to attend a Normal School of California at some later time and who wish to complete the regular teachers' course in two years, should complete in the high school the following general requirements as set forth in Bulletin No. 14, a part of which is printed below.

General Requirements

36	*English Literature and Language, including grammar, composition and oral expression.....	2
18	*Physical Science—One year of general science, including the applied elements of physics, chemistry and physical geography, or one year of physics or chemistry or physical geography, provided that for students entering after June 30, 1918, the general science shall be prescribed.....	1
18	Biological Science, including physiology, hygiene and sanitation	1
18	*History of the United States and Civics, including local and state government.....	1
36	*World History	2
18	Drawing and Painting, including applied design.....	1
18	Music, including sight reading, two-part singing, and elementary harmony	1
9	Manual Training or Household Arts, or both; provided, that for students entering after June 30, 1918, one unit shall be required.....	$\frac{1}{2}$
9	Elements of Agriculture, including practical work in gardening, floriculture and plant propagation; provided, that for students entering after June 30, 1918, one unit shall be required.....	$\frac{1}{2}$
18	*Mathematics, including general mathematics or the applied elements of algebra or plane geometry, or commercial arithmetic.....	1

*Subjects must be taken in High School.
A unit means a year's work (36 weeks).

FACULTY

LUDDEN, Mr. A. J.....	Principal
VANDER EIKE, Mr. PAUL.....	Vice-Prin., Science
BERRY, Mr. GEORGE T.....	Agriculture
BISHOP, Mr. W. R.....	English, German
BROWN, Mr. V. B.....	English
CARSON, Miss MARION V....	Typing, Stenography
CHUBB, Miss OLIVE M.....	English
CRAIG, Mrs. H. S.....	Latin, Librarian
CULBERTSON, Miss LULIE M....	Physical Culture
CULLIMORE, Mr. CLARENCE.....	Mech. Drawing
DENTON, Mr. PAUL R.....	French, English
FORKER, Miss YSABEL.....	Spanish
ELLIS, Mr. CLYDE G.....	Freehand Drawing
GODSHALL, Mr. A. M.....	Music
GRIFFITH, Mr. D. M.....	Mathematics
KRUGER, Miss LOUISE M.....	German, Latin
FARRAHER, Mrs. MARY.....	History
URNER, Mr. DAVID E.....	Mathematics
M'CORMICK, Mr. R. E.....	Mathematics
SEAT, Miss GLADYS.....	Spanish
MILLS, Mr. W. M.....	Chemistry, Assaying
ROBINSON, Mr. W. E.....	Mechanical Arts
RISTER, Mr. O. W.....	Commercial Department
SHIRRELL, Mr. E.....	Oral English, U. S. History
SHUTE, Mr. SIDNEY E.....	Mechanical Arts
SIEMON, Miss LIDA.....	Household Economics
STIERN, Miss ELSIE.....	Secretary
VALENTINE, Mr. M. E....	Physics, General Science
VIVIAN, Mr. W. A.....	History
WALDO, Miss LULU.....	English, Dramatics
WILSON, Mr. GEO. E.....	Mechanical Arts
WILSON, Mrs. SADA.....	Household Economics

ANNOUNCEMENT
OF THE
JUNIOR COLLEGE COURSES

MATRICULATION

The same regulations that govern admission to the University of California are in force in the Junior College. Regular students must have fifteen recommended credits, or forty-five credit units, distributed as indicated in the "Circular of Information" of the University. All other students are classed as Special with incomplete matriculation and are admitted on condition that they make up their matriculation deficiencies before applying for the Junior Certificate. High school graduates are admitted without entrance examination, but must comply with the foregoing regulation if they later wish to enter the University.

Credit Valuation of Courses

The credit value of every course is indicated. In general one credit unit means one hour of class work a week. Laboratory courses require more time. The assignment of home work is left to the judgment of the instructor. College credit is not given for high school subjects to college students pursuing such subjects, except as provided for by the rules of the Faculty of the University.

COURSES

BOTANY

5A—General Botany

A laboratory course in the study of the plant, including the morphology and physiology of the various plant organs. The equivalent of Botany 2 at the University of California; 8 periods a week —2 lectures and 6 laboratory periods—the first semester; 3 units.

5B—General Botany (continued)

A continuation of course 5A, taking up the general characteristics, comparative morphology, and economic importance of the spore-bearing and seed-bearing plants. This course corresponds to Botany 3 at the University of California; 8 periods a week the second semester; 3 units.

CIVIL ENGINEERING

5A-5B—Surveying Theory, Field Practice, Mapping

The principles of plane surveying, including methods employed in topographic, land, city, mining and hydrographic surveys and in making maps and calculations from field notes. The course includes special problems in the field and in the drafting room. This course is the equivalent of C. E. 1ABCD at U. C.; 10 periods a week; both semesters; 6 units.

DRAWING

5A—Descriptive Geometry

Although emphasis is laid upon well executed,

careful drawing, credit is given as a result of successfully completing the two semesters and the final examinations. The course is the equivalent of Drawing 2A at the University of California and it prepares a student to continue with Drawing 2B. The text used is "Descriptive Geometry," by Albert E. Church. Prerequisites: Freehand Drawing, Geometrical Drawing and Solid Geometry. All students in Architecture and Engineering are required to complete this course; 5 periods or more a week both semesters; 3 units.

ENGLISH

5A—Principles of Rhetoric

The principles of rhetoric worked out and demonstrated by a study of modern prose. Linn's "Essentials of English Composition" will be made the basis for the study of the four forms of discourse. Specimens from Bunyan, Macaulay, De Quincey, Spence, and the more modern examples found in "Prose Specimens" by Duncan, Beck, and Graves will be used. Two hours each week will be given to the study of masterpieces; three hours to practical composition; 5 periods a week the first semester; 3 units.

5B—The Short Story

Esenwein's "Writing the Short Story" and Pitkin's "Writing and Sale of the Short Story," will furnish text for guidance in the study of technique. Many examples of the best short stories will be analyzed with a view to studying the methods used by writers in their development of plot, character, setting, etc. Constructive exercises will be given; short stories will be written; 5 periods a week the second semester; 3 units.

GEOGRAPHY

5A—Physiography

General discussion of earth relations, land forms, weather and climate, and oceanography and their relation to human affairs. Salisbury's or Tarr and Martin's College Physiography will be used for reference. This course corresponds to Geography 1A at U. C.; 5 periods a week the first semester, for lecture and class work; 3 units.

5B—Industrial and Commercial Geography

A survey of the world's industries, products and commerce; the chief commercial routes, and a general outline of the commercial relations of the nations of the world and of the rise and fall of the world entrepot in commercial history. J. Russel Smith's "Industrial and Commercial Geography" is in use for reference in class work. The course includes special reports from the U. S. "Commerce Reports," on commercial treaties of the U. S., on the relations between Geography and Economics, etc. Prerequisite: Geography 5A; 5 periods a week the second semester; 3 units.

HISTORY

5A-5B—History of the Nineteenth Century

A survey of nineteenth century history, as outlined for Junior Colleges by the Department of History at U. C. Both semesters must be taken before credit is allowed. The work comprises lectures and class work; 5 periods a week, both semesters; 6 units.

5C-5D—Advanced English History

A study of the political and constitutional history of England, including the examination of il-

lustrative documents, as outlined for Junior Colleges by the Department of History at U. C. This course will alternate with course 5AB; 5 periods a week both semesters, for lectures and class work; 6 units.

MATHEMATICS

5A—Plane Analytical Geometry

The equivalent of Mathematics 5 at the University of California. Prerequisite: Algebraic Theory and Trigonometry; 5 periods a week the first semester; 3 units.

5B—Differential Calculus

The equivalent of Mathematics 9 at the University of California. Prerequisite: Course 5A; 5 periods a week the second semester; 3 units.

PHILOSOPHY

5A—Deductive Logic

Corresponding to Philosophy 1A at the University of California; 5 periods a week the first semester; 3 units.

5B—Inductive Logic

The equivalent of Philosophy 1B at the University of California; 5 periods a week the second semester; 3 units.

POLITICAL SCIENCE

5A—Government

The parliamentary governments of Europe, including England, France and Italy. Three lectures a week, oral quizz and written tests on outside reading; 5 periods a week the first semester; 3 units.

5B—Government

The federal governments, including a study of

the German Empire, Prussia, Austria-Hungary and Switzerland. The last eight weeks of the course are devoted to a critical and comparative study of the government and politics of the United States. Three lectures a week, oral quizz and written test on outside reading; 5 periods a week the second semester; 3 units. Political Science 5A-5B is the equivalent of Political Science 1A-1B at U. C., and of Economics 31-32 at Stanford.

ROMANIC LANGUAGES

5A—Elementary French

The equivalent of French AB at U. of C. or matriculation subject 15a2. The grammar used is Fraser and Squair's Shorter Course. Accurate pronunciation on a basis of phonetics, the essentials of grammar, and a careful translation of simple French prose into idiomatic English receive careful consideration; 5 hours a week the first semester; 5 units.

French

5B—Elementary ~~Spanish~~ (continuation of 5A)

Further study of the grammar, especially syntax, conversation and composition. Reading of French prose and plays. Reports in French on outside reading. Prerequisite: Course 5A or equivalent; 5 hours a week the second semester; 5 units. This course is the equivalent of French CD at the University of California.

5A—Elementary Spanish

Stress is laid on the essentials of grammar, careful translation of Spanish into English and on accurate pronunciation, Castillian being the standard. Olmsted and Gordon's Grammar is used. This course is the equivalent of Spanish AB at the Uni-

versity of California and of matriculation subject 15c2; 5 hours a week the first semester; 5 units.

El Spanish Further study of grammar, especially syntax; reading of contemporary prose and Spanish plays; conversation and composition. Prerequisite: Spanish 5A or matriculation subject 15c2. This course is the equivalent of Spanish CD of the University of California; 5 hours a week the second semester; 5 units.

FACULTY OF THE JUNIOR COLLEGE

LUDDEN, A. J.....	Principal
VANDER EIKE, PAUL.....	Dean of J. C., Science
BROWN, V. B.....	English
CULLIMORE, C.....	Drawing
DENTON, PAUL R.....	French
GRIFFITH, D. M.....	Surveying
M'CORMICK, R. E.....	Logic and Mathematics
SHIRRELL, ELMER L.....	Political Science
VIVIAN, W. A.....	History
SEAT, Miss GLADYS.....	Spanish

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